

IN THE CLAIMS:

Please AMEND the claims and ADD a new claim as follows:

1. (Currently Amended) A mobile phone which is able to be carried by an authorized user for performing various electronic information processes, comprising:

- a main body;
- a battery pack detachably attached to the main body for supplying power thereto, said battery pack having an input/output section integrally formed therewith for performing a user verification function using ~~input/output signals comprising~~ biometric information of a user of the mobile phone input via the input/output section,[[,]] wherein[[,]] said user verification function verifies the identity of an authorized user of the mobile phone based on the inputted biometric information;[[,]] and
- ~~an interface section comprising~~
- ~~an optical communications means for optically receiving/transmitting signals as the input/output signals, disposed on a contact surface between the battery pack and the main body, for transferring the input/output signals relating to the~~ inputted ~~biometric information~~ between said main body and the battery pack, said optical communication means comprising:
 - a light emitting module provided for the battery back, and
 - a light receiving module provided for the main body and opposing the light emitting module while the battery pack is attached to the main body, to directly receive light emitted from the light emitting module,
- wherein, to transfer signals relating to the inputted biometric information from the battery pack and the main body, the light emitting module emits light and the light receiving module directly receives the emitted light while the battery pack is attached to the main body.

2. – 51. (Canceled)

52. (Currently Amended) A mobile phone comprising:

- a main body of the mobile phone;
- a battery pack detachably attached to the main body for supplying power to the main body, the battery pack having an input/output section to input information to the battery pack from outside of the mobile phone, and to output information from the battery pack to outside of the mobile phone; and
- an interface section comprising an optical communication means ~~for optically receiving/transmitting signals as the input/output signals, disposed on a contact surface~~

~~between the battery pack and the main body,~~for providing communications between the main body and the battery pack, wherein the battery pack and the interface section operate together to allow biometric information of a user of the mobile phone to be input to the main body from outside of the mobile phone to provide a user verification function to verify the identity of an authorized user of the mobile phone utilizing the biometric information being input to the battery pack through the input/output section and then being input to the main body via communication between the battery pack and the interface section, and to allow information to be output from the main body to outside of the mobile phone by being output from the main body to the battery pack via communication between the interface section and the battery pack and then being output from the battery pack to outside of the mobile phone through the input/output section,

said optical communication means comprising:

a light emitting module provided for the battery back, and

a light receiving module provided for the main body and opposing the light emitting module while the battery pack is attached to the main body, to directly receive light emitted from the light emitting module,

wherein, to cause the biometric information being input to the battery pack through the input/output section to be input to the main body, the light emitting module emits light and the light receiving module directly receives the emitted light while the battery pack is attached to the main body.

53. (Previously Presented) A mobile phone as in claim 52, wherein information input to the main body from outside of the mobile phone by being input to the battery pack provides additional functionality to the mobile phone.

54. (Canceled)

55. (Canceled)

56. (Previously Presented) The mobile phone according to claim 52, wherein the battery pack contains a processor for utilizing the biometric information to provide the user verification function.

57. (Previously Presented) The mobile phone according to claim 56, wherein the battery pack contains a memory for storing personal data of an authorized user of the mobile phone.

58. (Previously Presented) The mobile phone according to claim 56, wherein the battery pack communicates a result of the user verification function to the main body of the mobile phone.

59. (Previously Presented) The mobile phone according to claim 57, wherein the processor compares the personal data stored in the memory with the biometric information of a user of the mobile phone that is input into the input/output section of the battery pack, to provide the user verification function.

60. (Currently Amended) A mobile phone comprising:

a main body;

a battery pack, detachably attached to the main body, supplying power to the main body, the battery pack comprising an input section integrally formed with the battery pack; and

an interface section, disposed on a contact surface between the battery pack and the main body, optically transmitting signals between the main body and the battery pack, the interface section comprising

a light emitting module provided for the battery back, and

a light receiving module provided for the main body and opposing the light emitting module while the battery pack is attached to the main body, to directly receive light emitted from the light emitting module while the battery pack is attached to the main body.

wherein biometric information of a user of the mobile phone is input to the input section of the battery pack, and the main body and the battery back communicate via signals optically transmitted between the main body and the battery pack by the interface section with the light emitting module emitting light and the light receiving module directly receiving the emitted light while the battery pack is attached to the main body to thereby optically transmit signals from the battery pack to the main body. so that the mobile phone verifies whether the user is an authorized user of the mobile phone based on the inputted biometric information.

61. (New) A mobile phone comprising:

a main body;

a battery pack, detachably attached to the main body, supplying power to the main body, and having an input section;

a first light emitting module on the battery back;

a first light receiving module on the main body and positioned so that, when the battery back is attached to the main body, the first light receiving module directly receives light emitted by the first light emitting module;

a second light emitting module on the main body;

a second light receiving module on the battery back and positioned so that, when the battery back is attached to the main body, the second light receiving module directly receives light emitted by the second light emitting module;

wherein biometric information of a user of the mobile phone is input to the input section of the battery pack, and optical signals related to the inputted biometric information are transmitted from the battery back to the main body by emitting light from the first light emitting module and directly receiving the emitted light by the first light receiving module while the battery back is attached to the main body, and optical signals related to the inputted biometric information are transmitted from the main body to the battery back by emitting light from the second light emitting module and directly receiving the emitted light by the second light receiving module while the battery back is attached to the main body, so that the mobile phone verifies whether the user is an authorized user of the mobile phone based on the inputted biometric information.